CLAIMS

1. A diffuser for a motor-fan assembly, comprising:

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- a disc-shaped plate having a lower surface;
- a first plurality of vanes located on the outer periphery for directing airflow towards the lower surface of the plate; and

a second plurality of vanes on the lower surface arranged circumferentially for slowing and directing the airflow to the interior of the motor-fan assembly.

- 2. The diffuser of claim 1, wherein said first plurality of vanes are comprised of an aperture on the periphery of the plate and a channel for directing the airflow towards the lower surface of the plate.
- 3. The diffuser of claim 1, wherein said first plurality of vanes are airfoil shaped and angled downward for directing the airflow towards the lower surface of the plate.
- 4. The diffuser of claim 1, wherein said second plurality of vanes are spiral shaped.
- 5. A motor-fan assembly having a diffuser of the type for slowing the airflow and reducing airflow noise, comprising:
 - a housing, armature, and related components;
 - a disc-shaped plate having a lower surface;
 - a first plurality of vanes located on the outer periphery for directing airflow towards the lower surface of the plate; and
 - a second plurality of vanes on the lower surface arranged circumferentially for

slowing and directing the airflow to the interior of the motor-fan assembly.

- 6. The motor-fan assembly of claim 5, wherein said first plurality of vanes are airfoil shaped and angled downward for directing the airflow towards the lower surface of the plate.
- The motor-fan assembly of claim 5, wherein said second plurality of vanes are spiral shaped.
- 10 8. A floor care appliance, comprising:

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- a motor-fan assembly for creating an airflow;
- a diffuser for slowing the airflow and reducing airflow noise, comprising:
 - a disc-shaped plate having a lower surface;
- a first plurality of vanes located on the outer periphery for directing airflow towards the lower surface of the plate; and
- a second plurality of vanes on the lower surface arranged circumferentially for slowing and directing the airflow to the interior of the motor-fan assembly.
- 9. The floor care appliance of claim 8, wherein said first plurality of vanes are airfoil shaped and angled downward for directing the airflow towards the lower surface of the plate.
- 10. The floor care appliance of claim 5, wherein said second plurality of vanes are spiral shaped.